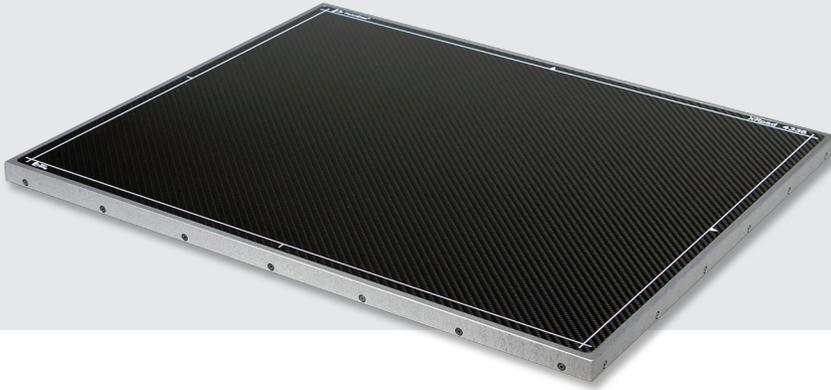# XRpad 4336

Flat Panel X-ray Detectors

Features and Benefits

- Cassette detector per ISO 4090, fits in conventional Bucky
- True 35 cm × 43 cm (14" × 17") image
- High resolution 100 µm pixel pitch
- Up to 65,536 gray levels
- Automatic Exposure Detection (AED)
- Direct deposition CsI, for excellent image quality
- Wireless 802.11n standard
- Integrated status display
- Rechargeable battery
- Optional connector for power and data communication
- On board memory for image storage

Applications[1]

- Digital radiography

Upgrade to Digital Radiography

Overview

The PerkinElmer XRpad™ 4336 is a wireless, light weight, cassette-sized flat panel detector for digital radiography. It fits into a conventional table or wall-stand Bucky, just like a film-screen cassette.

Featuring a 15 million pixel image matrix, a best-in-class 100 µm pixel pitch, and a directly deposited CsI scintillator, the PerkinElmer XRpad 4336 provides exceptional image quality. True 35 × 43 cm^2 imaging area per the ISO 4090 cassette standard is provided, along with a removable, rechargeable battery. Single-piece carbon-fiber construction for the front and back housing allows for easier placement and cleaning. Automatic Exposure Detection simplifies integration.

We have over 20 years of experience partnering with customers to develop products in a wide range of X-ray applications. Let our digital imaging experience work for you.

PerkinElmer®

For the Better

XRpad 4336

Sensor

Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	Direct deposition CsI:Tl
Pixel Matrix	3556 × 4320
Pixel Pitch	100 µm

Electronics

Amplifiers	Low noise ASICs with user selectable gains
ADC	16 bit
Image Transfer Time	Wired: 500 ms; Wireless: 3000 ms
On Board Memory	1 GB DDR3, 4 GB SDHC card

Mechanical

Size	ISO 4090 for 35 cm × 43 cm (14" × 17") cassette size
Active Area	True 355 mm × 432 mm
External Dimensions	384 mm (w) × 460 mm (l) × 15 mm (h)
Weight	3.8 kg (8.4 lbs)
Housing	Carbon-fiber front & back

Communications

Status Display	OLED display with WiFi, battery, and sensor indicators
Wireless Data I/F	802.11n WiFi standard
Wired Data I/F	GigE via optional power & communication tether
X-ray I/F	Integrated X-ray trigger control
	Automatic Exposure Detection

Imaging Performance

Limiting Resolution	5 cy/mm
Typical MTF	70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5
Typical DQE	75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5
Energy Range	20 – 150 kV

Environmental

Temperature	10 – 35 °C operating
Humidity	30 – 70 % RH operating (non-condensing)

Power

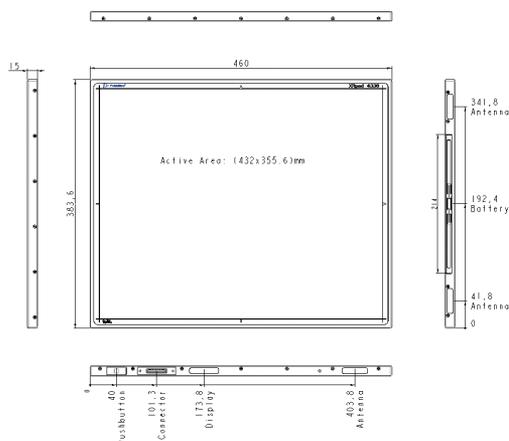|	
Battery	Rechargeable battery, 11.1 V
Battery Charger	External two bay charger 100-240 V AC 50/60 Hz
Interface and Power Unit	Optional XRpad IPU with external power supply 100-240 V AC, GigE, and X-ray I/F

Regulatory

Standards	IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311 ISO 10993-5, ISO 10993-10, CE

[1] Unless otherwise specified, PerkinElmer Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements.

Contents in this document are subject to change without notice.

Mechanical Characteristics (Dimensions in mm)

For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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